

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 01/10/01  
Date Received: 12/29/00  
Project: Metro Grab, PO# M84255  
Date Extracted: 01/02/01  
Date Analyzed: 01/03/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M84255 012108-01	0.78	0.86	0.73	0.08
Method Blank	<0.05	<0.05	<0.05	<0.05

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**ENVIRONMENTAL CHEMISTS**

Date of Report: 01/10/01

Date Received: 12/29/00

Project: Metro Grab, PO# M84255

**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 012108-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.78	0.80	3	0-20
Copper	mg/L (ppm)	0.86	0.82	5	0-20
Nickel	mg/L (ppm)	0.73	0.72	1	0-20
Zinc	mg/L (ppm)	0.08	0.13	a	0-20

Laboratory Code: 012108-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.78	103	105	80-120	2
Copper	mg/L (ppm)	5	0.86	104	99	80-120	5
Nickel	mg/L (ppm)	10	0.73	99	102	80-120	3
Zinc	mg/L (ppm)	5	0.08	101	102	80-120	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	105	105	80-120	0
Copper	mg/L (ppm)	5	108	108	80-120	0
Nickel	mg/L (ppm)	10	105	104	80-120	1
Zinc	mg/L (ppm)	5	107	107	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

# SAMPLE CHAIN OF CUSTODY 012108

K1 12/29/00

AI

Send Report To Genoa A. Thompson  
 Company Alaskan Copper Works  
 Address 628 S. Harvard St  
 City, State, ZIP Seattle WA 98184  
 Phone # 206-382-8379 Fax # 206-382-4309

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>metro Grab</u>	PO # <u>m84255</u>
REMARKS	

Page # _____ of _____ <b>TURNAROUND TIME</b> <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by: _____
<b>SAMPLE DISPOSAL</b> <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CE, Cu, Ni, Zn				
m84255	01	12/29/00	10:00	H2O	1							✓				

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Genoa A. Thompson</u>	<u>ACW</u>	<u>12/29/00</u>	<u>11:00</u>
Received by: <u>[Signature]</u>	<u>Eric Young</u>	<u>F+B</u>	<u>12/29/00</u>	<u>12:00</u>
Relinquished by:				
Received by:				



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 10, 2001

**DUPLICATE COPY**

**INVOICE #01ACU0110-1**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Grab, PO# M84255 - Results of testing requested by Gerry Thompson for material submitted on December 29, 2000.

1 sample analyzed for Total Chromium, Copper, Nickel and  
Zinc by Method 6010 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

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e-mail: fbi@isomedia.com

January 10, 2001

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

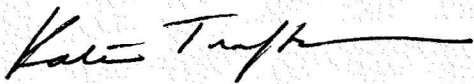
Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 29, 2000 from your Metro Grab, PO# M84255 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton  
Project Manager

Enclosures  
ACU0110R.DOC